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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/779,891 02/17/2004		Ronald B. Hulfachor	112055-0068U	9644	
24267	7590 06/14/2005		EXAMINER		
CESARI AND MCKENNA, LLP 88 BLACK FALCON AVENUE			WELLS, KENNETH B		
BOSTON, M.			ART UNIT	PAPER NUMBER	
			2816		

DATE MAILED: 06/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application	ı No.	Applicant(s)				
			10/779,89		HULFACHOR ET AL.	and			
Office Action Summary		F	Examiner		Art Unit	(44			
			Kenneth B.	Wells	2816	4			
The MA Period for Reply	ILING DATE of this commun	ication appe	ars on the	cover sheet with the	correspondence address	;			
A SHORTENE THE MAILING - Extensions of time after SIX (6) MON - If the period for re - If NO period for re - Failure to reply wit Any reply received	D STATUTORY PERIOD F DATE OF THIS COMMUNI may be available under the provisions THS from the mailing date of this comm ply specified above is less than thirty (3 ply is specified above, the maximum st thin the set or extended period for reply the by the Office later than three months a n adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136 nunication. 0) days, a reply watutory period will will, by statute, c	i(a). In no ever within the statut I apply and will ause the applic	t, however, may a reply be to ory minimum of thirty (30) da expire SIX (6) MONTHS fror ation to become ABANDON	imely filed sys will be considered timely. n the mailing date of this communi ED (35 U.S.C. § 133).	ication.			
Status									
2a)☐ This action 3)☐ Since thi	Responsive to communication(s) filed on 17 February 2004 . This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Cla	aims								
4a) Of the 5)⊠ Claim(s) 6)⊠ Claim(s) 7)□ Claim(s)	1-10 is/are pending in the ase above claim(s) is/ase allowed. 9 and 10 is/are allowed. 1-10 is/are rejected. is/are objected to. are subject to restrict	re withdrawr							
Application Paper	rs	•							
10)⊡ The draw Applicant Replacen	ification is objected to by the ring(s) filed on is/are: may not request that any objected to declaration is objected to	a) ☐ acception to the drift the correction	oted or b)[rawing(s) be on is require	held in abeyance. Set of the drawing(s) is of	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.1	• •			
Priority under 35	U.S.C. § 119								
a)	edgment is made of a claim Some * c) None of: ertified copies of the priority ertified copies of the priority epies of the certified copies eplication from the Internatio ttached detailed Office actio	documents documents of the priorit nal Bureau (have been have been y documer (PCT Rule	received. received in Applicants have been received 17.2(a)).	tion No ved in this National Stag	e			
	erson's Patent Drawing Review (Flosure Statement(s) (PTO-1449 or			1) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:					

Application/Control Number: 10/779,891

Art Unit: 2816

1. Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 1 and 9, it is incorrect to recite the VCO as including the control FET, receiving means and bipolar diode, i.e., these are the elements of the PLL, not the VCO (from applicant's figures, these elements are all upstream of the VCO 20, see instant Fig. 7 or Fig. 9). Also, on line 6 of claim 1, "the current" should be changed to --a portion of the drain current-- because this is what the figures show.

In claim 3, it is incorrect to recite "the diode" as including both the NPN and PNP base emitters (because this is actually two different diodes that include these two features, as shown in the instant figures).

In claim 4, it is incorrect to recite that the current through the second FET is in parallel with the current through the first FET, i.e., these currents are in series, not parallel.

Claim 6 is indefinite because it appears that the third N type MOSFET is actually part of the "means" already set forth in claim 1 (and thus should not be set forth as a further additional element of the invention).

Art Unit: 2816

In claims 7 and 8, there is no antecedent basis for the recited fourth and fifth FETs (because no first through third FETs are set forth in claim 1).

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Okamoto.

Note Fig. 8, where the recited "control FET" reads on either FET TR12 or FET TR14; and the recited "means for receiving" reads on either FET TR11 or TR13. Not disclosed is the recited "bipolar diode" (Okamoto only shows generic diodes D11 and D12), It would have been obvious, however, to one of ordinary skill in the art that generic diodes D11 and D12 can be made using either FETs or BJTs without any change in circuit operation of function, i.e., either type would work equally well in Okamoto's Fig. 8 circuitry. Thus, claim 1 does not distinguish patentably over Okamoto.

Art Unit: 2816

3. Claims 9 and 10 are allowed.

Claims 2-8 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth B. Wells whose telephone number is (571)272-1757. The examiner can normally be reached on Monday through Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan, can be reached at (571)272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on

Application/Control Number: 10/779,891

Art Unit: 2816

access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner Art Unit 2816

Page 5

June 10, 2005